

# LPS Series Model Code



**1 형식 TType**

LPS - LPK Co., Ltd. Motor Direct Robot, Linear Motor Robot Type

**2 Body Size**

- 150 - Robot Width 150 mm
- 155 - Robot Width 155 mm
- 180 - Robot Width 180 mm
- 220 - Robot Width 220 mm
- 300 - Robot Width 300 mm

**3 Linear Motor Maker**

- Y - Yaskawa Linear Motor
- M - Mitsubishi Linear Motor
- S - Sewoo Linear Motor

**4 Motor Shape**

- None - Ironcore Type Linear Motor
- C - Coreless Type Linear Motor

**5 Stroke**

The Distance Between - Limit and + Limit (mm)

**6 Motor Capacity**

The Linear Motor Peak Force(N)/10  
Ex)1200N = 120

**7 Slide Table Q'ty**

- S - Slide Table 1 Set (Single)
- D - Slide Table 2 Set (Double)
- T - Slide Table 3 Set (Triple)
- Q - Slide Table 4 Set (Quad)
- S5~ - Slide Table Q'ty (User Option)

**8 Linear Scale Resolution**

The Linear Scale Resolution (μm) x 10 (Digital)  
010 - Scale resolution 1μm (Digital)  
A - Analog Linear Scale

**9 Linear Robot Color Option**

- W - Soft White Anodizing (Standard)
- B - Soft Black Anodizing

**10 Surface Treatment Option**

- None - Without Surface Treatment (Standard)
- R1 - LM Rail Raydent
- R2 - LM Rail & Block Raydent

**11 Cableveyor Option**

- None - Without Cableveyor (Standard)
- C - With Cableveyor

## BASIC SPECIFICATION

• Repeatability	±1μm (Resolution 1μm) ±0.5μm (Resolution 0.1μm)
• Flatness/Straightness	±20μm / 1,000 mm
• Accuracy	±10μm / 300 mm
• Deceleration Mechanism	LINEAR MOTOR
• LM Guide Bearing	Two Way 15V-2BLOCK
• Main Base & Slider	Aluminum Profile, Soft Anodizing
• Base Second Moment of Area(mm <sup>4</sup> )	Ix=3.89E+06 Iy=4.57E+06

## LINEAR MOTOR SPECIFICATION

MODEL		LPS150Y		LPS150M	LPS150S			
Linear motor Maker		YASKAWA		MITSUBISHI	SEWOO			
		SGLFW-20A090AP	SGLFW-20A120AP	LM-H3P2A-07P	SWL-PMI10C	SWL-PMI20C	SWL-PMI30C	SWL-PMI40C
Max Speed (m/s)		5		3	-			
FORCE (N)	Continuous	25	40	70	18.8	38	56.8	75.2
	Max	86	125	175	56.4	114	170.5	225.7
Current (Arms)	Continuous	0.7	0.8	1.8	1.3	1.3	1.3	1.3
	Max	3	2.9	5.8	3.9	3.9	3.9	3.9
Serial Converter		JZDP-D008-017	JZDP-D008-018	-	-	-	-	-
Linear Encoder Signal		Analog		Digital	Digital			
Servo Drive		SGDV-1R6A05A		MR-J4-40-RJ	MADHT1507LA1 (PANASONIC)			

주1) 상기 MAKER 이외의 타사 MAKER 도 적용 가능. 당사로 필히 문의 요망.

## ACCELERATION & SPEED에따른 PAYLOAD

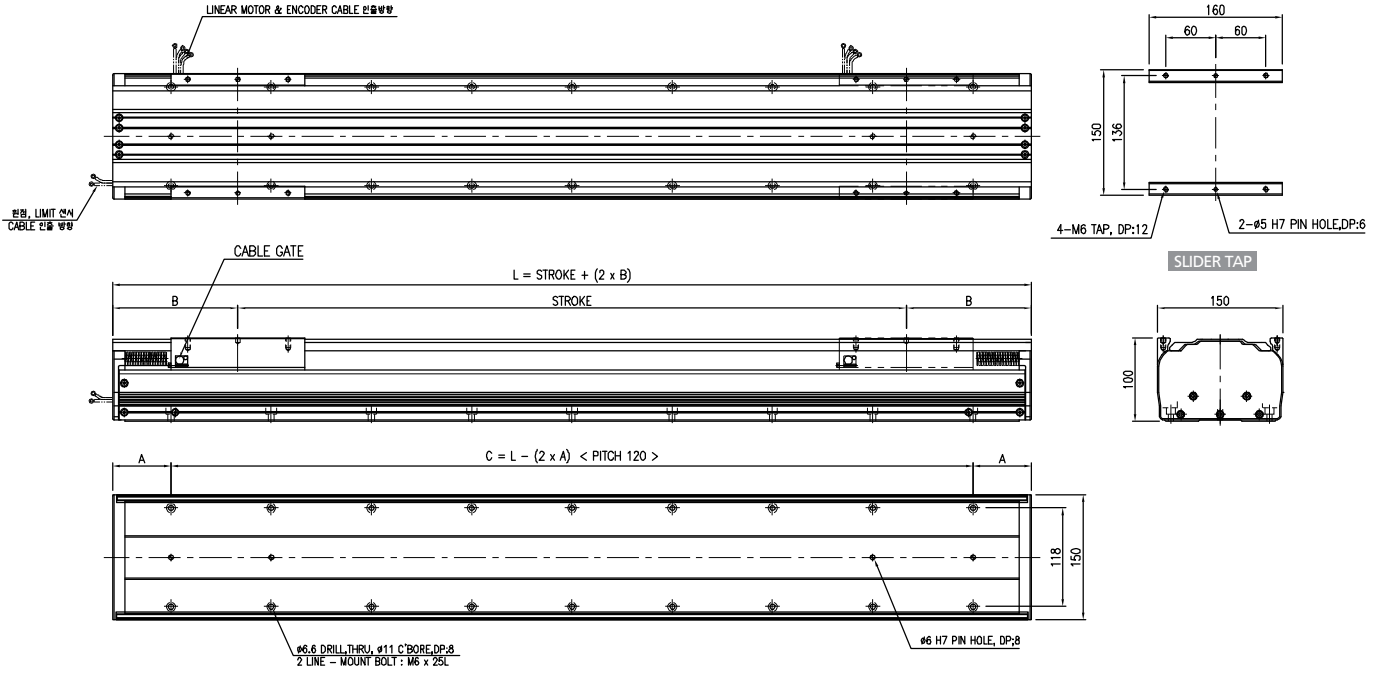
LINEAR MOTOR MAKER		MAX PAY LOAD (Kg)												
		가속도(G)		속도(m/s)		가속도(G)		속도(m/s)		가속도(G)		속도(m/s)		
		2	1	2	0.5	1	1	1	0.5	0.5	1	0.5	0.5	0.5
YASKAWA	SWL-PMI10C	-	-	-	-	-	-	-	-	-	-	-	-	1
	SGLFW-20A120AP	-	-	-	-	-	-	1	-	-	-	3	-	7
MITSUBISHI	LM-H3P2A-07P	3	3	3	0.5	6	6	8	8	10	10	18	18	19
SEWOO	SWL-PMI10C	-	-	-	-	-	-	-	-	-	-	1	1	2
	SWL-PMI20C	-	-	-	-	-	-	2	2	2	2	7	7	10
	SWL-PMI30C	-	-	-	-	2	2	6	6	6	6	14	14	16
	SWL-PMI40C	2	2	2	0.5	4	4	10	10	9	9	20	20	25

주1) 상기 표 이외의 사용 조건에대해서는 당사로 필히 문의 요망, 주2) STROKE 1000mm, 휴지시간 : 0sec 사용 조건임.

## LINEAR WEIGHT

STROKE (mm)		100	200	300	500	700	1000	1200	1300	1500	1700	2000	2500	
Weight (Kg)	YASKAWA	SGLFW-20A090AP	14.7	16.3	19.5	21.1	24.3	29.1	32.3	33.9	37.1	40.3	45.2	53.2
		SGLFW-20A120AP	15.4	17	20.2	21.8	25	29.8	33	34.6	37.8	41	45.9	53.9
	MITSUBISHI	LM-H3P2A-07P	13.6	15.6	17.6	21.6	25.6	31.6	35.6	37.6	41.6	45.6	51.6	61.6
	SEWOO	SWL-PMI10C	18	19.4	20.7	23.4	26	30	32.7	34	36.7	39.4	43.4	50.1
		SWL-PMI20C	18.2	19.6	20.9	23.6	26.2	30.2	32.9	34.2	36.9	39.6	43.6	50.3
		SWL-PMI30C	18.4	19.8	21.1	23.8	26.4	30.4	33.1	34.4	37.1	39.8	43.8	50.5
SWL-PMI40C		19.3	20.7	22.0	24.7	27.3	31.3	34.0	35.3	38.0	40.7	44.7	51.4	

## LPS150-1



### LINEAR MOTOR

MODEL	LPS150Y	LPS150M	LPS150S		
Linear motor Maker	YASKAWA	MITSUBISHI	SEWOO		
	SGLFW-20A090AP	LM-H3P2A-07P	SWL-PMI10C	SWL-PMI20C	SWL-PMI30C